To the Grand Compared Return. July 19 - Aug. 7, 1928-Vernon Baily

July 19 1928 Left Washington, 1948 Eaptot Limited at 3 PM for The Gravel Caryon, at siguest of The Carlies of Carnageic Last. To helt will Their Nature Sateration Reaghen. The request was pour De John C. Musiam To especially Carelate present famos flores with the Grologies ages Trong up from the bottom of The Canyon to the top but it is a party The big plan to over to the public a bitter implirationality of ratual history of outdoor knowledge and values through the great nature laboration of our Malional Barles. Us I see it my best work will be with the park rangers of Water guides who will keep going any work we can get started there.

The original conseptions of D. C. Hail Merican when he planned the San Francisco Mountain Exter in 1889 Ma biological suction of the earth involveding the list Zones from Lower Saverace The Grand Campon up to Transition ad Canadian on top of the rise and and then Through Canadian. Hudsonian of aretie alpins on the Sanfrancesco Peals just south of the carryon of maight of the runs carrying Haut and anival bift from The upper edge of the Traperes char & the histir chivaly will apply to The present strelles! Infruet we only med to put in practice

and bring out The survey one woode at that truy, conditativece graphically published in North Umerican Found No. 3. This facing will be noy trust ad starting point but hape to get plunty of thank illustrations of amount of plant life in bulation to the znal distribution as well as to their wore appealing whenst to all of up at first hervel ad class muge. Um høping to bring in many of the swall annuals alive to be really seen and appreciated by The holes quests ad lowright who sweeming and out of the Park.

Les I hart washington the day is considered bot, probably 95 but donds are gotthing and a Thurder storm will probably cool the air before The capital limited is Comportable, aworth and swell to that after on bours sleep I feel like settling down to a wort enjoyable trips. The country masket of pout soil is sich in verdust and in places bright with widowners Howers, a since Silve is the want abundant at comprisons Hown along the wilroad where Freders. & bout jour wild from

White Lasies, yarrow od elderberry blandows hold parts of the secrety and n places a feathery goldenwood suggest aulum. Deep orange will week (wellparadara) Show up in spots and money alber flowers are moud bis Coeal. Faither along som Searlet and Trumpet empers give a web Touch & The dung viney poliage and a few Rwyth for sie weeds and browning to bloston in grither whole The sousstry is beautiful in a quiet way but The frieding mason is here al wither the brightness of apring northy richness of autima

The viviles rupe and wheat our Cut and shocked and shouldby in the stack or bann or bun. Com is knu high & waist high and accasionably a patch on low ground looler promising Fruit Trues, apples of flooding, Vegetables in home gardens are presently somethy but with warry erostotens. Later in The day we ruch the way of wales of the Polonae with the high elwatin ad shightful waters of The wountains.

July 20 after a delicions wol night wale it in bouthern Liebena rushing news I the bot country and instring fort their mentary for on 18 Hour Trift between Moshington met Churingo. Got up at had bright of Foolack only to find we had changed time af It was only 7. 1 Dut The country is beautiful and The air delecious. Crops are good ungitation raule Il luxe. Winter what not upe are in the strock, com about as tall as on The costen slope but doch of wary strang spring what il sols werly ripo, potatous at await potatoes bol proming od fruit hus

when agricultury supports The harmer instrad of the farmer barring h upport agriculture. The life gove of this part of the Trip is Upper Serverau, about the Laure as at Washington to a comparison of the floral of fannal elements is not mensey. The main differences are in gedogy od raif. We we near the southern stoned Lake Muchigan at your we witer the Land dune forwation with its quat bariety of soil al waistury correlations, appreting plant and animal lift. numerous tule at caltail warrhes and sloughes suggest avoid sites for musterest farms. The samply soil was The love store would also be good for cultivaties blueberries if properly might with warsh much, as the lake protects from part.

Vireoejo mets your a little faither out on each trips through it. I would like to see a map of the ecty in September of 1870 when I first rock clear through if we a covered wagon, as I remember if 20 miles of dup sandy wood between wowld untainly yellow of gray total hours with wooden sidewalks and no pared struts. It was a long hard days havel at a slow steady pull before we got Through The city to a cheent place to camp on the prairie beyond, with our two covered wayous, my father out wother, two brothers next to The youngest, a yearsold.

Tolley I took the Blue Ling Light seeing has and rocke about \$ 5 miles around the City Boulevards mahout 22 bours. Ou hundred years ago Chiego consisted of 4 log cabins trully H. Dearbarne which had just hun rebuilt after the hidran messer of 1812 when the whole settlement was distroyed. In 1871 when the city burned 70 ood prople were nach homeliss, about a quester over 3000000 est still graving. Newt & The full Museum and spurt an hour in The groups of warmals. Was should by the excellent group of western ell

from the Ohympie Mt., collected ne Mynnbel by Carl E. blukey, and take I can get a photograph of the growp from my Oshgon Rep. The old hall-ell hos The typical stert, heavy, wit tipped barns Tuvosi, worevilte, very tiles those of the hype of the edos and general characters of the spreis wer resquesable before I got mas wough & rad the label. The wounting and setting are up to likelys hert ad would wall a wording the Welly wewereaf hall is the firest feature of the morker put contains only a party his wary

Newt next to the and Gallery (Chieves Institute of het) and greatly injoyed The rich collections their. It is auch a seitisfacher to find Runbants, gainerboros, Corots, Millets, broyones, Butous, Troyones, Turners, Constablis, and such pietures instead of the woderen stuff I recutly saw at the Detroit but Gallery. Then was a lot of wordern work here too but noue of a faddest and disqueling type. The Hatury is worthy classical oct The wore newt waste is by Daniel C. Frunch St. Gaudius and rome of Radius but pieces. a full lungth

status of Linnaeus is probably the same as the big brange statue in Lineals Park but the bus didint stop to thus sell it closiby, St. Gaudhus Linealn in Linealn Park is fing and stands out in good light which it does not get in The Linealn Mewords in Washington. My Harles in Chreago and The nost numerous of effusivelof any City I know celau well equipped with loles for booting I swining ast with play grands Conservalaries, a grood 300, and warry educational act renationel features.

June 1928 14 1-1-3 Vuly 21, Daylight of Bosworth, Mo. and I watched the fields go by till are Crossed the Missouri River, their got up of finished breakfurt as me pulled into Kantons City at & all. Left Komras City at 9. An crossing the Missouri Riout alley the rich said is wident in the good reops where professly cared for med otherwise in the legisland growth of weeds. unfortenately wort of thefules produce were needs than erops od warmy fullet are given up to weeds. or used as con pastures of weeds and geness. Ou almost any eftensive area seen The wielet of crops wild be work Than doubled with intelligenet hardling of the land and with like wanted labor than is now in west cares wasted on it fam inquiering ought To be a wort otheretive occurre.

In Messairie Villey bere west be dast to the edged Lower Sourceur zone Corn is healt high al worth of it turnely out, Wheat of rye are all haurstrof but worthy in the shoole. Thereis an inmittable advance in The Rolan over any place we bout crossed It varben a ring noton eleups ed regetation are levereut. Surpours au alto complowers od blade graf susones. Thereau blasson, while worming glosees and a pew Mus incompieurs floures but the Hoverive maon is it its brown est ebt. I hard un casteen modowlark just byork exorsing he Missouri Run but have val get loand the western. Thought I heard a didesiased types Cossing The Missourie of hand me for sust along the Kaw Valley between

Keinses City o Wielila Early potatoes are repe at being dug ort sacked in large fields, Thousands of agens of them. apparent in blossow and somet fields have have aut. Jeoneys hills are comor along Corn is big and bearily ravel. Corn is big and the trees along the grapiones boad the trees along the movi toubs, Collouwoodels set Willows in abundant od would find thousands of braverse Wells is high I wouldy in the Caw but no signs of flood Ming queel. There are some fine farms Henrel the first western wesdowlack between Topeka and Emperica and lots of them faither along. From Hutchinson west the centry is higher od dryer I amps an largely great this gues as thetelers bear plintiff rain.

With biths cretture at his weeds they would be twice as good. Simplowers are abundant but rather airful ands as they furnish rich seeds for slock at hids and mice. Even the tubb mids have a way for they furnish a provide food for birds and mice, and would probably be vide for miles, and would probably be vide for miles, and while a good suckary. Cool and delightful after the rain.

Vuly 22. Swelay I suppose. Saylight on the fright most Earthy man Ratou, M.M.g. at I got up as our pulbelists Les Vegas at 6:70 am. They has been lots of rain of the country is growny, the jumper of wet purtues are full and greek and well rounded crops are growing - lots of bille dry terra palelus and Then are wany Howers in blockson. Crossed the Preas Paroy of Rifera ad lord a good view of The old Sprends unseon of San Miguel furt helow. not much surver on the routh rile of I leas Problem and Translos Plakes Does The summent of Glowella and home & Lany and who the Rio Grands Valley. Dry od dusty outsiely but not uncomfortable - The will ained California himilia. Redebed Winslow of adamana

July 23. Lift Williams for The Grand Camper about a UM and saw the sum sixy on The desert ad Seur Francisco MM. Watched the rouge for life zones Prairie dogs etc- all The way a arrived at The edge of the Campon of 8 all. found a soon usewed for me at The El Tovar Holy ad was met by Dr. Friel Kight al Edwin MG-Keek. Mr. Lilletson, park Superwhent took &r. Wight of Glen Shirdwant, The park naturatist, at I west to Havasupi Point where we bad a wondreful view of That part of the conveyor as we lumbled on the rem. The campon is here Comparatively narrow of deep cel has intricate and broken up by side carryons of is very imprissing from its sheer difeth of vorstness as well as its glowing colors of char out geologiest layers at wonderful carving. On The way The word runs Through Postury Wash, a long open roughrush at salt bull stalley that would walk an ideal antilops partury od bes The hist of outsloft foods, Thry spring of sorgebrush, attiplex comescens, Eurotia lawata, suchal spiew of Chrysothamps of nuvernes

Anal plants of quarses. Eler open jumper at mitigue fræst lorders læth rides of afferd shade at sheller. Murins no oper - water but a drawage tank of cisture supply the ranger station of would water a few autiloff of later a larger tank could be addelles. The conditions would be ideal for autility while thouse down in The Indian Gendens an alwart tieing of the extreme heat, parting brobuilly all the time during the hat of the day, Saw a few laws dues that lang around The latel of Tovar of

ad eat the flowers in the bottel garden but are more allactive Wash all the Hours. They were wought over from The north side of the campor and are tower well berg. It The range cally war permitted to eat up wery green Thirty along this run of the Park Could be Eliminated we could have duer at autilops all Through These reautiful Willow ping at mit pine forests. od some day It will come to be. alto mountain shuff and come of over The rown of by a welcome And of the Park faring.

July 24 Delpied the boys set out traps od wolle up akins to get them started on a collection of man als, brids most upstilly which The med ben. Have a king talk of The betty museum building at Marapi Point on The annuals of the Carryon ad another in The evening at The camp fire.

With Suft. Fillitson, his wife oref Two children, the Dean ad Hean, od glin Sturdvauf. on mule both with a post mul to carry our extra loggoge. Sturdyent of I started ahead to we could stop of hunt hand cel callret plants put were overtaken by me washed the bottom by the ust of the party. Reached thy & banton Rauch mas wouth of Dught lings Cruck about 5:30 and staid over night. Set haps el Rupared Herennens in Every of Caught 3' sprieus of Personyteus Justers we went to bed.

It seemed watered to again by in the hot lower soveran zone with the purgent other of Backers ad the This Hade of Metquits ad to sluft on lops of the Covers on a received porch. The tempt values to day was only 106 in the stade but but been 1/4 This seumer. The campa down not cool of soon of night of is satted furnace tily. I felt The heat wou than I used to all bod to be caused not to over exect myself. Could not drivel everyth wahr to cool my engine, but later acquired the bobit.

Found in interesting lot of ligards - The camper waterding on that I never new before with a landered laif like a glucoker. It may be the young of the Chridiawalla but is nistly ud de of very different ottops. Could not find a Chrickmolla The they are truet & by purply Commen. Eallard ligarity were Como, aldo Cuewodophous, Serbfrens nogistus, al surred tittly seels fours of what of Holfswollias. Got all we Could for spreniums of will bar Them identified later. July 24 - Followed up Bright angel that Cruel Through a deep Carryon for some unity, they out with nou open valley, Lunched A Ribbor Falls, a heautiful Hoot at continued up The Aphroliel new Trail part Roasing openings to the top at Bright augul Point of the quat hotel, called the Lodge, on the Moth Kim Was delighted & find abundan of destripe knowletini for very nicht along The haif operately Rouring Skrings of got stology.

got our dinner as early as went out - a big can to su The dur, along the word worth about 18 mily through Thy open valley known as The VT Ranche found bots of dus al Country from The car 1/2 on The way out but did vot count mear all of them, they come into the long weadows and open valley to first a Timy wild clove! How grows in qual apustance al stand be intervalued Where ever dues are caused. They were sust obgains it up by

werithfull Tief bord Come in from the fourt all around. Next in frueties, sometimes a dozen or 50 bushes logethy on a lot of doe I of purus or all might up or realling out. The fueles bad full grown author the velocit of nevel how so warmy sets 9 huge authers hiper. It seemed as if ball The dues were all bucks but there new lots of spotted purely and forthere all booked shoup at shuk and Jappy and They will not assing of as. 1 done old

heads and gust as the our my went by on 50 ful anny of with about as much mitnest as if we well a padding car. Luw ran unless we body thy hen & get them out of the way. It was a sight the thrill the soul of amjores but a hunter. Carry W Two portubues on the now all brought a young our bouch & The both to show The readell. Marly froze as Vocat without a lad of had to her of my could collar ad tua horotherely orling had ad wished batt mueti males suf coat.

The whole drivy except the Hart was through pur Canadian goni stour 8500 fut ad it full good tryst bouch to the loty 8/00 but and but the warmer air come up, out of the campe Short will all the covers over me a mee warm log Cation chie to the both and the sorreupene we brought book staid quietly belief the story in on corner of our room.

July 24. Went out to the Ranger Station sel Let traps for poelect goffburs, stot a Chrispmuk ort word not at al red oquind al caught 3 Callospernophiles and maks set last night by floth tright caught 3 Perompreus m. rupinos a Meotoma lipida pod a Entamas dossalis is uterpensis. In afterward went with the mod ranger, Frank Wissess to tar View Point gove & willy east on The sim of Marble Carryon where I could Gook all over! The Painty Distert Country across Marble Campon, up the Carmyon of the Little Colorecelo sel borr a good ween of Marajo Mountain The Listance.

Got some plotographs of Ed. Laws of Ranot, mud the Park vangers, od formet he was a tapidemist ad knows a lot of The annals. He told med about 25 monutain shop down on this side of the Carryon below here that he bad seen læst wuter. Got Charles Merream ad Jehn E. Sturdwart to wake up spienners and I worked with them showing Them all I could de we completed a mes box full to tales back to The other seeds of this Campon. In evering gave a tall in

teeture room on the awind bill of the campon and had the percupine on a topp for illustration. He betraved niech det allowed The people to stroke his publical very quilly. There were probably So people in The auchience. In woring went out well Charles Murran and notur walls with a dozen os 15 people and be gave Them a but of group information. He is a fine by littly more enthusias un would work his talles more inspering.

July 27. - Gathered a few worst specimes and started back across the carryon about 10 oeloek of lunched mas the overlanging holgs before walling Mouning String, Reached Pautom Rauch Sout 5 PM of staid all might. Carrotta roch rattles about Thru ful long mas our tent ad sut it in a gumey Jack to be stolernapped in The worning. Seratety my freger on one of its buth as I bet god if in the soch and drew blood but got no poison in al no nous affects

Suched the Cloud out and after supper put a little Lodins on I to priving infection of next woring could searchy find The place. fot some ling live spreums of the Committee Stores tissulatus de Dellopous Stader wajesty at the power louse. I wow then snared them for me with a moose an a histopole. Sit 9 traps after supper as how I want to had had 2 Motora likide man Trips and 3 sprews of Peromyrous of a Ruthrodarlowys in The others. Mot a very but day.

July 28; Got a fairly carry start by the south ride of the Campon, Attil taling woring stolung The rattleswale of Trying & get a Church-walla. Carrie back by way of Indian facilies where the autilops are but Jaw only 2, The Ild hugh of doe. The not were off in The brush but these two were eating rolled backy in the blode by The rangers bouse and were so tame they would let me bet them and would not go out in the lot sun & be pholographia

The does very thing and not in good shope but the buch is fine and swooth and plump, Both were feeling the heat badly at pareting all the time in the cooles stock they could find. Thuis alumdance of for them, both green and dry all grass and browse They boot eater all the lieurs off a large rase bush as bigh as they Com wash all all food of the havis of keach and apple hues. admining of the vality bushes. Short dry grass, Plantago, Tillaree, Ed warmy littly green grass along The works edges are available as well as htlight Caucieus, Emotia Chrysothamas od other browse plants:

Heart El Loven about 4 PM tired but with a great fuling of accomplishment on full of the vasture ad wonders of the graved Couyon. Took a both of got into chan clothes of ristig about supper gave a talk on Carbbod Cavern with a set of shides at the hotel. Camps fire and heard practof a tall on Geology by Sturdyaut. Mestday. hulfred walter up alives and stuffed The really smake with sound. We then coolered and all some of it and all agreed That it was good

July 38. Helped walle up spreumens and wiroll of usted wanty The Lay. Yave a talk on Call for Covern in evening at the fatel with a set of lantery stides found they and not being used. Then went down to Camp fire and beard part of a tall on The geology of The Carmyon My Sturdevant Had an Easy day ad ful met ustig ups. At // all Sue. flas Davis of his daughter care to the Garafi Point morin where They were geven talks on The grology of the armyon by Sturdward and Marker al Thus I talked to them on the animal lift of the campon of gave the Dieretanys daughter a horntood that I had pieled up by the trail. At levels in The El Town Hotel The Frentary Called me over to his table where I unjoyed a oblightful visit between him ad his daughter. Shy bod the boentood in a proper boy and when last seen on the train and catching

July 36, Whole betters of water ad Ward gon walls ad got nut muj lanting stides d ed en evening gave a talle a The animal life of the Graves Carryon Courtry, illustration it with life governap, types of regulation of the 4 goves present ad Their showing wast of the warnels of the region. Hoda good betuy ball in thy Il Lover, a good lawtery and wast appriliating andrener, Hool to stay marry on bout ofter the below to talk of them The best of could.

aug. 1 - Staited for Flagstaff with Superintendent Lillitoera and his daughter gene at Eddy Me the by way of The Campred The hittle Colaracto, the Converou ranch at painting Disert, Then berel around the east side of Dem Franceses Mountains, about 85 miles with fauly good wood norty In way. found the gove was as published - 1889 appropriately carret but was able to defing The sower dovorang the fittle totorado Valley word definitely as not instuding all below the raged westricted to the lower valley of the runs.

The bower Soveran of The little Externello I hely is modicated by Coliceppe savasissing, Thamussuman wordenmen, agave utahensis, queea anaustifolier with a two poot think square Lower part of grand Canyon, litriply tiles corresours but the same as grows The Grand Carryon all on Mahour Diseit, Echivercaethes beauti, Ceretus engelwani, Opsewlia engelmanni, Operatia clavota; very spiny Opuntia with fine white spines is in grand Canyon atriphix confertifolies, Bigelovies of 3 spries, Guterrizea of troppeis 129 Crotophytus taileyi, Leloporus magistu, humosphuly Circumst Howarys perpullidus. Juresally The zeve is very base of somewhat infied with hyper someway Weg. 2. Proj. H.S. Colton in charged the bullwhofierf of general museum Munt Haystaff took his big Buch Car of took Eddy M2 her set we ap deur Francisco Mermelain our The new wast now completel alwayt to the top of ligassing Peak, a worderful Trips for scenery of life gour studies. MEtre vertto the top of the seal and we went well above timberline. Has The wad words up The south side of the wountain of around into The old Crater east of the next peak south of against at their agass The east force of against about timberling outo the raddle to

the north of book along The peak. The grade is easy ad wording good, the last nights heavy rain bod salled a lot quel Found Thy life gone was appropriately correct but wall a few shight additions to it, adding nous Canadian quen & the 119 Hopes of Elden Mountain connecting Hirdrenian over The raddles between The Theales of the old exalty ring. Our lower adged donuples spences is also the lower edged hispen ed Pinus flights of com welly napped as Cavadian while the Spring of fit your about is namely Corradian with the dwarf tribes

or after augurea mark the Andronian They seems to be no old swow on the peaks this summer who and the ME. side of Humphary Role where we could not see but a lot of fush snow or swealt bail from last mights starm is still lying on cold upper stopes Formel Callospernophilus of helamias curenisallis and Samus up to trimberling and abundanced Clarks Crows, Junears ad having brids. Two barret tribed fignous swelt close to us over any of the readdless at timbuling.

Carry both down to Phy Collows beautiful borne on the wese about Hogestall and had a delians hurch with the family, My Collen al a 14 pravold sou. Went Thisough Collow Colonatry where he is expermenting with hiped white roll, woring The front put at birth of studying The effects of hiped life on houses and murches of the rats Through numerons quietations. It bosq will equipped laboratory with an assistant of is doing really careful scientific work. also his in charge of the murseum at Haystaff.

Mrs. Colton is an artist of trus done beautiful paintings of the Grand Carryon, Painted Disert and warmy seemes of This region of has a ranallable studio of her our disigna, till an Indian adoly with all north light. Their windows in The bouse an all pictury wurdows with views of the Sau Francisco Peales or out over the valley ad big gellen king forest, a wort intuiting pain of with a boy of quiet but original

Mug. 3 - Left Tlagstaff for home at 8:10 all Santa F., Calif. Limited. Good of pleasant oftes the rains od not hot all day, even u The Rio Grande Mally at Isliter of alfugue a hur au amord at le:15 al best at 7 / M. Thre by hem considuable sain all along of grass is good when not over stocked set over grazied. The Little Colprado was over its proces day before yesterday at the water a fort slup in the both at Winstow. Today it is down Da narrow stream - one side of the feel of the rever.

Aug. 4 - a cold night over the Ration Pass and I wishig I bod a seems blanket over me. Got up at La Junta in a reautiful bright world with futh green all around out of doars. It fors hem ranning ad is a good pear for stock. Faither east crops au good cel lastien Kunsas is booning It is postly sainty and some crops are spailed. Reseled Kansas City ofter a cool and computable day aug. 5 - Reached Chierap at 11all, Cool al Cloudy, Lift 12:45.

Aug. 4. arrived Louising, Mills. 7 PM ad went to Downing Hatel for the xight. Mug. 7 - Out to North Umeneau Fur farm to inspect pour col cages when unesterals are being placed for bruding purpases, wade exercisq whuls of suggestref some Changes in mettods of barrelling The animals. The lake where a fair stocks of musterats was found last spring contains numerous snapping turtles and a a flw ning are ranging auniel It misely of the enclosure, of

the musbrats are reported vot very numerous. Left for Marlingter 7:45 PM Aug. 7. Arrived Wardington 10 PM.